Operating Instructions
Colour Television
NICAM Digital Stereo
FASTEXT

Models

TX-28A2
TX-25A2

Panasonic

Please read these instructions completely, before operating this set.

TQB8E0689

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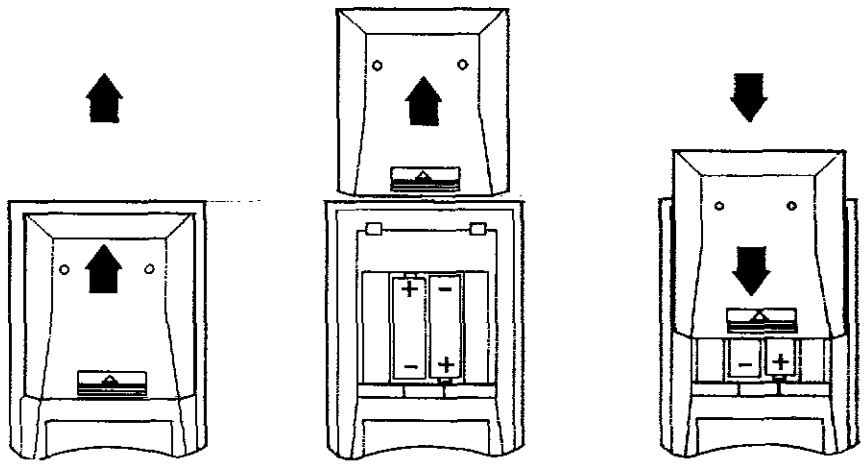
Battery Installation and Replacement

(Remote Control Transmitter)

Batteries: Use two 'R03' or 'UM-4' dry cells (supplied).



1. Remove the battery compartment lid.
2. Insert the batteries correctly as indicated by the (+) and (-) symbols.
3. Replace the cover.

BATTERY PRECAUTIONS

1. Do not use an old battery with a new one.
2. Ensure the batteries are inserted correctly.
3. Do not use rechargeable (Ni-Cad) batteries. They are partially different in shape and performance and may not ensure the desired function.

OPERATING SWITCH

This remote control is designed to provide multiple function operation and as such has two operating methods. If any difficulty is encountered when using this remote control with Panasonic video tape recorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.

This switch is located in the battery compartment as shown above.

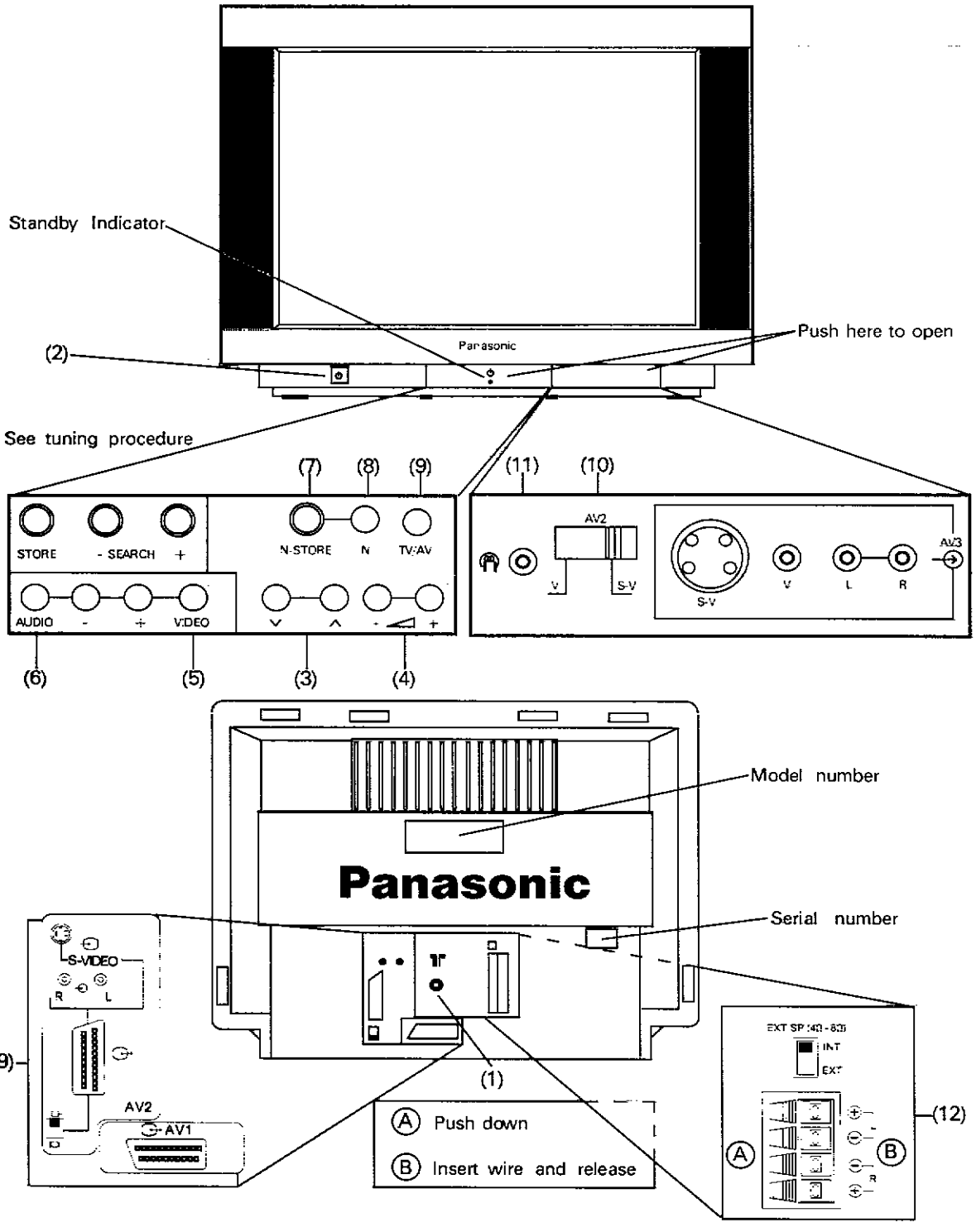
IMPORTANT NOTE

Certain Panasonic VTR's now have a facility for operating two VTR's with two types of signals from one Remote Control. These signals are called Remote Control Mode ' VTR1 ' and ' VTR2 '.

When using the TV Remote Controller for VTR operation, the handset will only function when the VTR is set to Remote Control mode ' VTR1 '.

This handset will not operate when the VTR is set to Remote Control mode ' VTR2 '.

Location of Controls

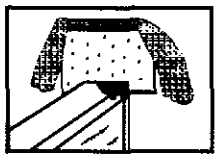


Dear Panasonic Customer

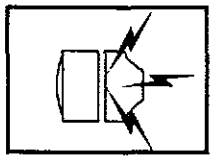
Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new colour television. This is a very sophisticated TV, the best way to understand the features is to read this book thoroughly, before operating the set.

Warnings and Precautions

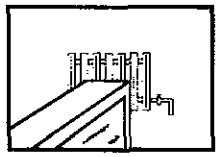
This TV set is designed to operate on AC 240V, 50Hz.



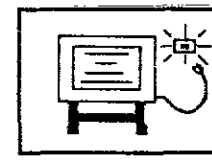
To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture.



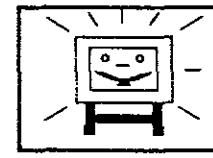
WARNING: HIGH VOLTAGE ! ! !
Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.



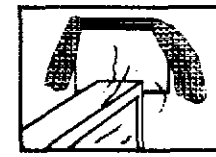
Avoid exposing the TV set to direct sunlight and other sources of heat.



Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time, especially when retiring at night.



CABINET AND PICTURE TUBE CARE
Remove the mains plug from the wall socket.The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum.



Adequate ventilation is essential to prevent failure of electrical components.

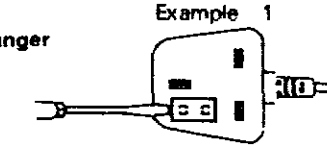
FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a fitted three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug.If the fuse is replaced then the replacement fuse must be 5 amp rated and should be approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

If the fitted plug has a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. Replacement fuse covers can be purchased through your local Panasonic Dealer.

If the fitted plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely. There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.
If a new plug is to be fitted please observe the wiring code as shown below
If in any doubt please consult a qualified electrician.

Example 1



How to replace the fuse. Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse and fuse cover.(See example. 1)

IMPORTANT :- The wires in the mains lead of this appliance are coloured in accordance with the following code :- BLUE : NEUTRAL BROWN : LIVE

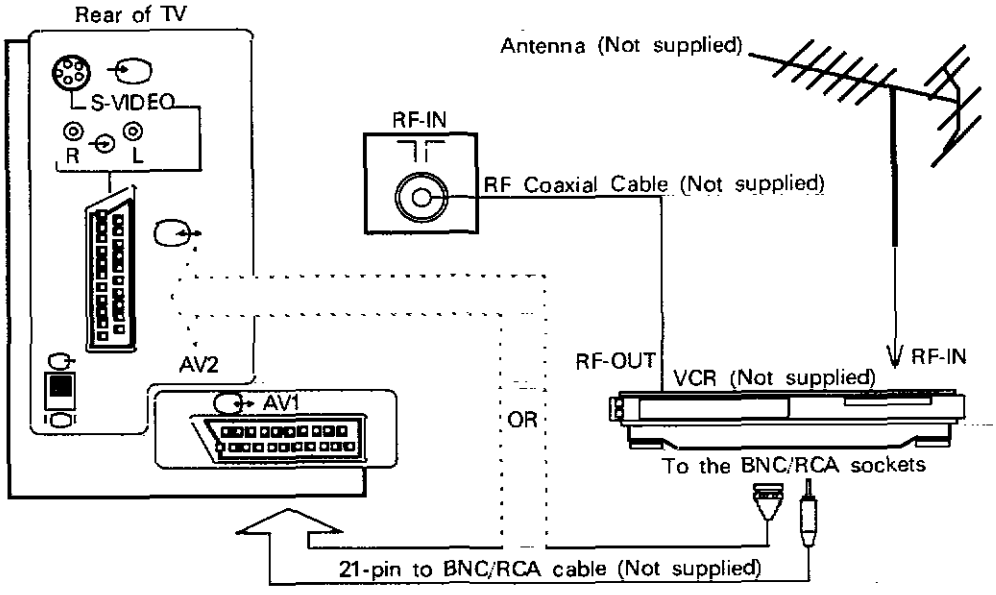
As the colours of the wires in the mains lead of this appliance may not correspond to the markings identifying the terminals in your plug, proceed as follows :-

1. **The BLUE wire must be connected to the terminal marked ' N ' or coloured black.**
2. **The BROWN wire must be connected to the terminal marked ' L ' or coloured red.**

IMPORTANT NOTE : Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter ' E ' or the earth symbol ⏚

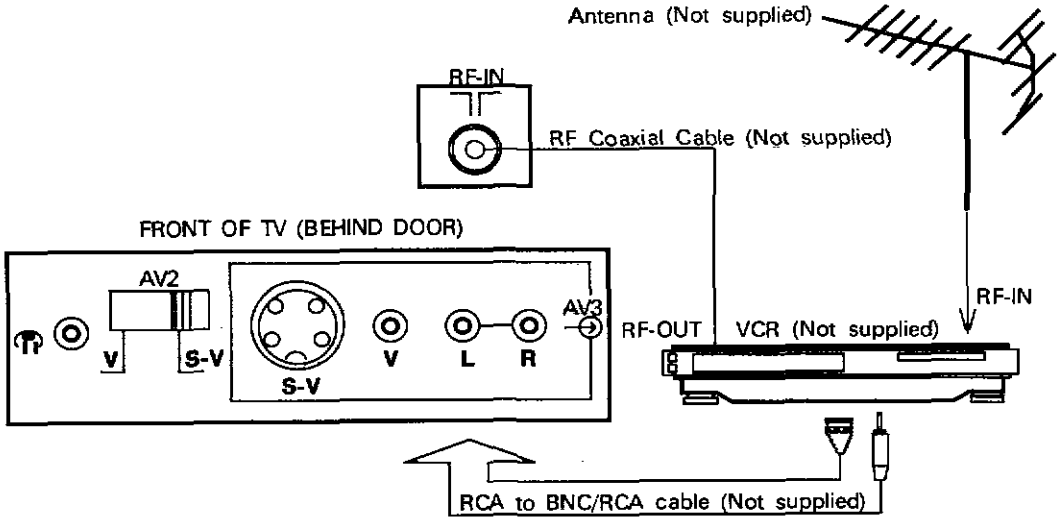
Audio / Video Connections

To a VCR not equipped with 21 pin terminal or S-VHS 4 pin terminal



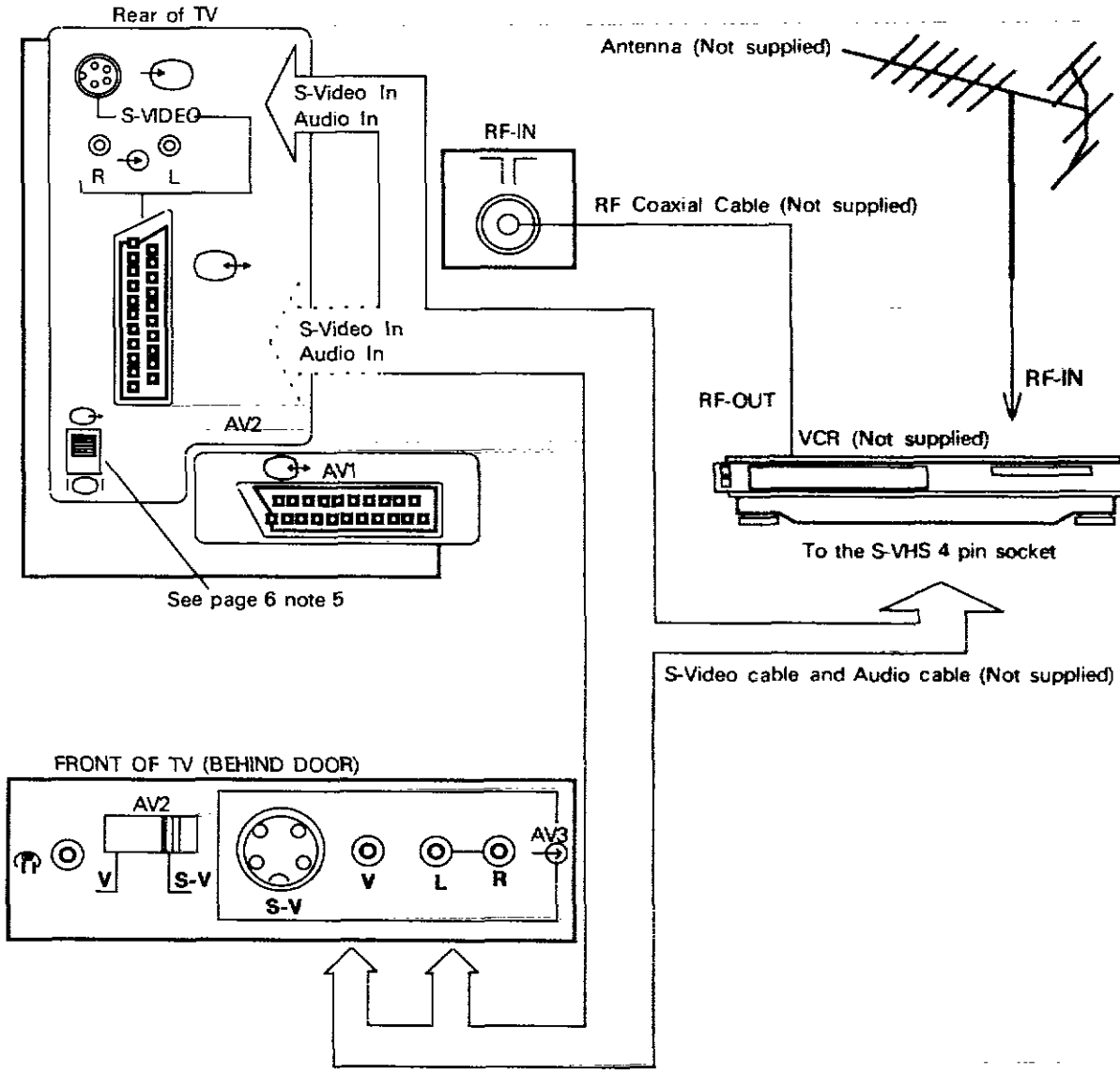
To a VCR not equipped with 21 pin terminal or S-VHS 4 pin terminal

(using the AV3 terminals located at the front of the TV)



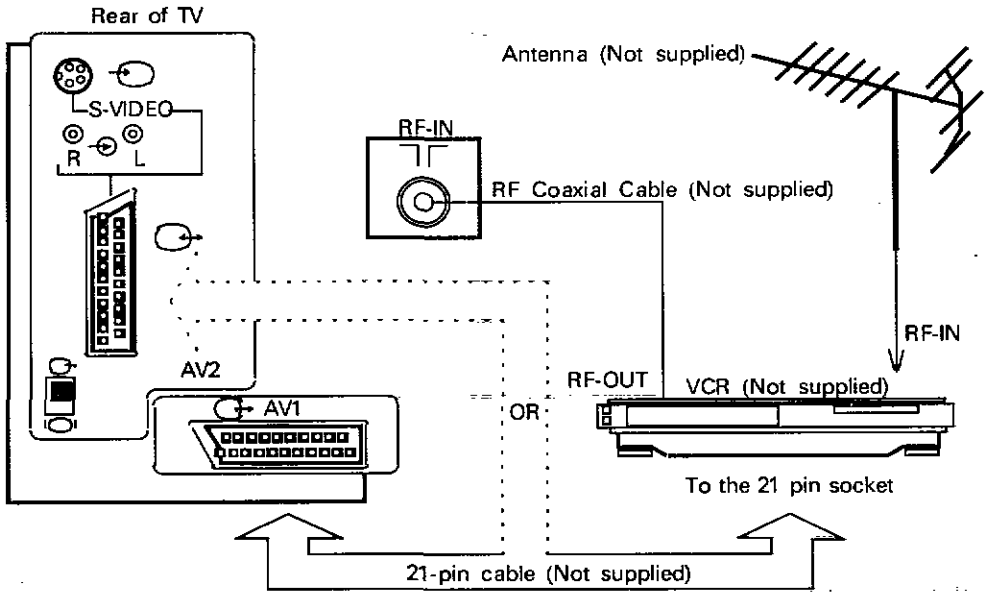
Audio / Video Connections

To VCR equipped with S-Video (S-VHS) 4 pin terminal



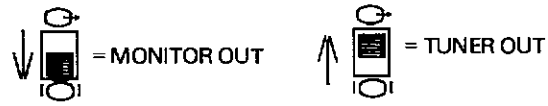
Audio / Video Connections

To a VCR equipped with a 21 pin terminal

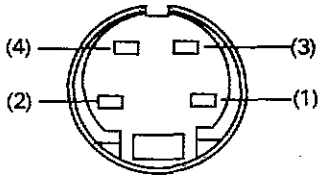


Important note

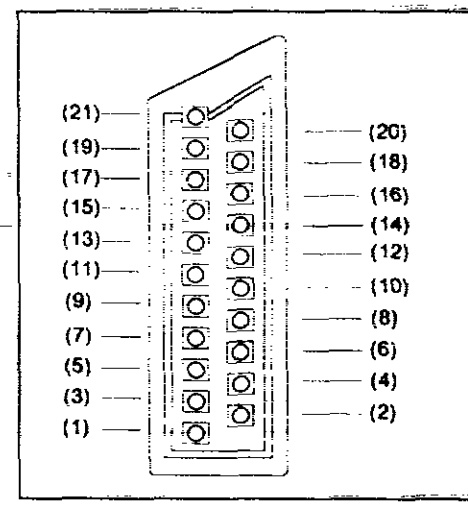
1. Do not connect a computer with TTL output (5V) to this set.
2. RGB input from a computer or TV game must be connected to the AV1 terminal, to view this RGB input AV1 must be selected, the AV1 21 pin symbol will be displayed in the top left of the screen.
3. AV2 may be used for S-VHS video playback on either the 21 pin terminal or the 4 pin terminal.If two S- VHS inputs are connected simultaneously, the 4pin terminal will have priority over the 21pin terminal for example, the 21 pin Video and Audio will be switched out of circuit and the Video and Audio input on the 4 pin terminal will be viewed on the TV.
   If S-VHS Video is input on the 21pin AV2 terminal the S-VHS/VIDEO switch on the front of the TV must be in the S-VHS position, ensuring correct display of the picture.
4. AV3 can be used for both S-VHS or video input.The 4 pin S-VHS input will have priority over the RCA video terminal if both are connected simultaneously.
5. AV2 may be used as a monitor output terminal and is switchable between what is on the screen at that time or whatever the TV is tuned into.
   In monitor mode with the switch in the DOWN position the output from the 21 pin terminal will be whatever is displayed on the screen,for example ,tape playback from another source via AV1.This will be available at AV2 21 pin terminal. In tuner mode with the switch in the UP position the output from the AV2 21 pin terminal will be whatever the TV is tuned to. This is independant of what is displayed on the TV screen at the time. This Monitor/Tuner switch allows flexibility when recording from the AV2 21 pin terminal.



21 Pin Terminal and 4 pin S-VHS details



AV2/AV3 4 Pin S-VHS Socket	
1.	Luminance earth.
2.	Chrominance earth.
3.	Luminance in.
4.	Chrominance in.



AV1	
1	Audio out (R).
2	Audio in (R).
3	Audio out (L).
4	Audio earth.
5	Blue earth.
6	Audio in (L).
7	Blue in.
8	--
9	Green earth.
10	--
11	Green in.
12	--
13	Red earth.
14	--
15	Red in.
16	Status RGB.
17	CVBS earth.
18	RGB status earth.
19	CVBS out (video)
20	CVBS in. (video)
21	Socket earth.

AV2 (See note 1)	
1	Audio out (R).
2	Audio in (R).
3	Audio out (L).
4	Audio earth.
5	Blue earth.
6	Audio in (L).
7	--
8	--
9	Green earth.
10	--
11	--
12	--
13	Red earth.
14	--
15	S.C - In
16	--
17	CVBS earth.
18	RGB status earth.
19	CVBS out (video)
20	CVBS in. (S-Y In)
21	Ground

NOTE:

1. Pins 15 and 20 of the AV2 21 pin terminal are dependent on AV2 S-VHS/VIDEO switching.

Tuning Procedure

Please refer to the location of controls diagram on page 2.

Programme Positions

Note:

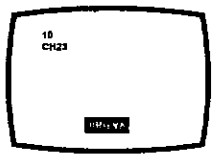
There are 50 programme positions available i.e. 50 positions on which to store different channels.
When tuning TV into a VCR, position '0' should be selected (The TV screen will show "VCR").
Programme positions can be selected in a number of ways (see below).

Operation

Method 1.

Select a programme position (1-50), using the programme up/down buttons on the T.V. or remote control.
Press the SEARCH up or down buttons until the desired channel is received.

The screen will show:-

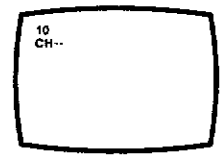


When the desired channel is on screen, press the STORE button to store the channel in the T.V.'s memory. The channel number will flash for approximately two seconds, indicating the program is stored.

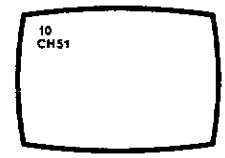
Repeat this procedure, using different programme positions to store other channels.

Method 2.

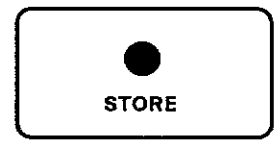
(If channel numbers are known)
Select a programme position (1-50).
Press the button marked 'C' on the remote control.
The display will now show :-



Enter the desired channel number, e.g. to receive channel 51, push buttons '5' and '1' consecutively.



When the desired channel is on screen, press the STORE button to store the channel in the T.V.'s memory. The channel number will flash for approximately two seconds, indicating the program is stored.



Repeat this procedure, using different programme positions to store other channels.
Consult your dealer about the channel numbers for your area.

Operation of TV Controls

Please refer to the location of controls diagram on page 2.

(1) Aerial Connection

Connect the aerial lead to the socket marked ' ' at the rear of the TV.

(2) Power Switch

Push to switch the TV on, push again to switch off

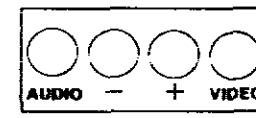
(3) Programme Up/Down

Press once to increase or decrease the programme position by one

(4) Volume Up/Down

Press the ' +' button to increase the sound level.
Press the ' - ' button to decrease the sound level
Displayed on screen as a Green bar.

(5) Video Function Select



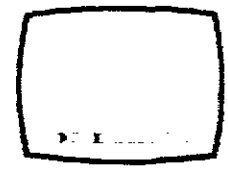
To alter the following video functions, first press the video function select button to rotate through the functions until you obtain the function you require then press the + or - buttons to increase or decrease the levels respectively.
Each function will be displayed for six seconds before disappearing. Press the video function select to return the display to the last selected function.

Colour Up/Down

Displayed on screen as a Red bar.

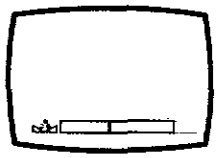
Contrast Up/Down

Displayed on screen as a Cyan bar.



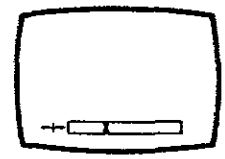
Tint Left/Right

(Only operational and displayed when receiving M.NTSC / NTSC signals from a video recorder).
Press the ' +' button to increase the red hue
Press the ' - ' button to increase the blue hue.
Displayed on screen as a Green bar.



Sharpness Control

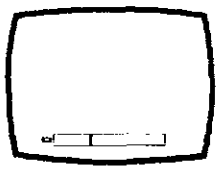
Displayed on screen as a green bar.



Note: It is only possible to set the Sharpness to one of four positions.

Brightness Up/Down

Displayed on screen as a White bar.



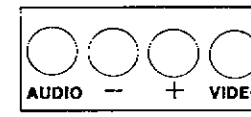
If the 'Video' button is pressed again, it will return to the original function displayed when first pressing the Video Function Select button.
Note : When the TV is used in Teletext or RGB operation, only the brightness and contrast functions will operate.

Operation of TV Controls

Please refer to the location of controls diagram on page 2.

(6) Audio Function Select

To alter the following audio functions, first press the audio function select button to rotate through the functions until you obtain the function you require.
Each function will be displayed for six seconds before disappearing. Press the Audio function select to return the display to the last selected function.

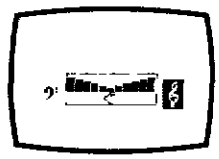


Bass Up/Down

The screen will show a line with the current level of bass set. If the bass is increased, the left hand side of the scale will increase in block size, indicating more bass. If the bass is decreased, the opposite happens, *i.e. the scale will dip under the centre, indicating a* reduced level of bass.

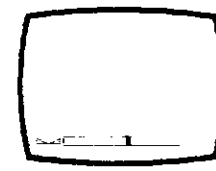
Treble Up/Down

The screen will show a line with the current level of treble set. If the treble is increased, the right hand side of the scale will increase in block size, indicating more treble. If the treble is decreased, the opposite happens, i.e. the scale will dip under the centre, indicating a reduced level of treble.



Balance

Press the ' +' button to bias the sound to the right speaker.
Press the '-' button to bias the sound to the left speaker.



If the 'Audio' button is pressed again, it will return to the original function displayed when first pressing the Audio Function Select button.

(7) Normalisation Store

Adjust the volume, brightness, colour, contrast, tint and sharpness to normal viewing levels. Press this button to store these levels in the TV memory.

(8) Normalisation

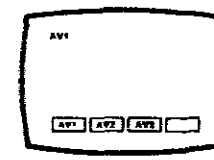
If levels of volume, brightness, colour, balance, contrast, tint and sharpness have been altered, they can be set back to their stored levels, by pressing this button.

Operation of TV Controls

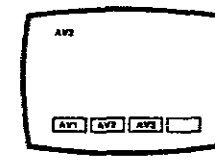
Please refer to the location of controls diagram on page 2.

(9) TV/AV Selection

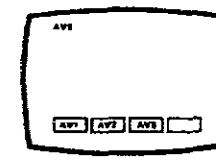
Press this button to select Audio/Video mode. The display will show :-



Press the AV button to select AV1, press the button again to select AV2 and again for AV3.If AV2 is selected, the display will show :-



If AV3 is selected, the display will show :-

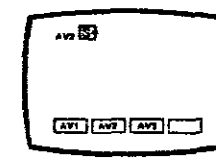


Press the button again to return to TV mode.

Note: AV2 and AV3 have connections for VCR's equipped with Super VHS (S-VHS); please refer to your VCR operating instructions for full details.

(10) AV2 S-VHS/Video switching

With this button in the 'S-V' position, the AV2 setting will change the Composite video to S-VHS video, providing that the VCR is a Super-VHS (S-VHS) type and a suitable connection is made to the S-VHS input.
In AV2 mode the screen will display:



(11) Headphones

A 3.5mm stereo headphone socket is available for the connection of a pair of 8-300 Ohm impedance headphones. The TV speakers will be automatically disconnected while the headphones are connected.

(12) External Loudspeakers

External loudspeaker terminals are provided at the rear of the TV for the connection of a pair of Hi-Fi loudspeakers of 4-8 Ohm impedance. The speakers are switchable from internal to external by means of a slide switch situated above the terminals. To select external speakers, move the switch to the EXT. position. The internal speakers will be disconnected while the external speakers are selected.

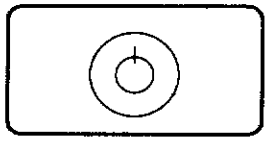
Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

Note : The Standby indicator on the TV will flash each time the remote control is used, to indicate that a signal has been received.

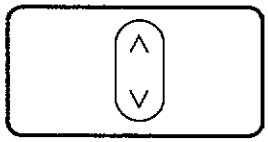
(13) Standby

Press this button to switch the TV. off for short periods. Press again to switch on, or select a programme position from 0-9.



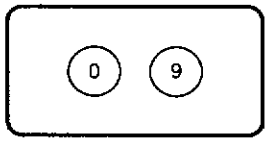
(14) Programme Up/Down

Press the up/down buttons to increase/decrease the programme position by 1.



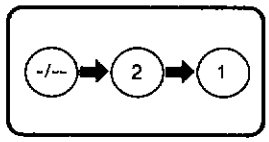
(15) Prog./Channel/Page Selection

Press these buttons to select programme positions, channel numbers or Teletext pages.



(16) Programme Position 10 - 50

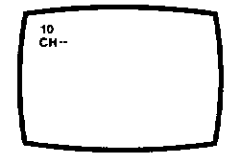
To select double figure programme positions (10-50), press this button and then enter the programme position number using buttons 0-9.



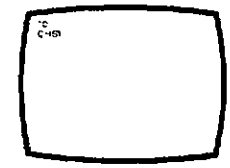
(17) Direct Channel Selection

Press the C button on the remote control.

The display will show :



Enter the desired channel number, e.g. to receive channel 51, push buttons '5' and '1' consecutively.



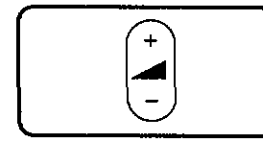
Press the STORE button to store this channel in the T.V.'s memory, or it will be lost if the programme position is changed or if the TV is switched off.

(18) Volume Up/Down

Press the ' +' button to increase the sound level.

Press the '-' button to decrease the sound level.

Displayed on screen as a Green bar.



(19) Off Timer

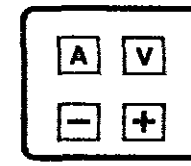
This feature enables you to time the TV to the 'STANDBY' condition. There are three time settings available, 30 minutes, 60 minutes and 90 minutes. Press this button once to set the timer at 30 minutes; press again to set at 60 minutes, press again to set at 90 minutes. Once the timer has been set, the time remaining will be displayed continuously at the bottom right of the screen in RED, and will count down the time remaining in minutes. To cancel this facility, keep pressing the 'OFF TIMER' button until the screen shows '0'.

Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

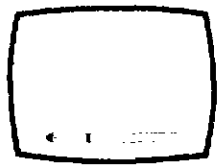
(20) Video Function Select [V]

To alter the following video functions, first press the video function select button to rotate through the functions until you obtain the function you require then press the + or - buttons to increase or decrease the levels respectively.
Each function will be displayed for six seconds before disappearing. Press the video function select to return the display to the last selected function.



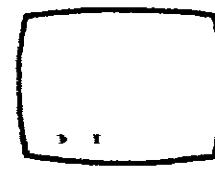
Colour Up/Down

Displayed on screen as a Red bar.



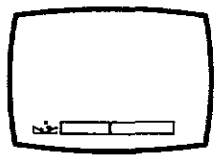
Contrast Up/Down

Displayed on screen as a Cyan bar.



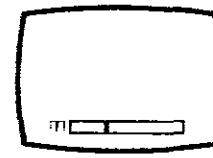
Tint Left/Right

(Only operational and displayed when receiving M.NTSC / NTSC signals from a video recorder).
Press the ' + ' button to increase the red hue
Press the ' - ' button to increase the blue hue.
Displayed on screen as a Green bar.



Sharpness Control

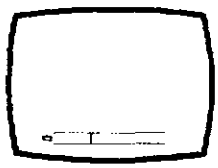
Displayed on screen as a green bar.



Note: It is only possible to set the Sharpness to one of four positions.

Brightness Up/Down

Displayed on screen as a White bar.

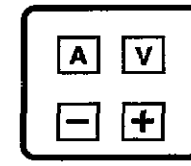


If the 'Video' button is pressed again, it will return to the original function displayed when first pressing the Video Function Select button.
Note: When the TV is used in Teletext or RGB operation, only the brightness and contrast functions will operate.

Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

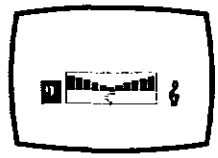
(21) Audio Function Select [A]



To alter the following audio functions, first press the audio function select button to rotate through the functions until you obtain the function you require.
Each function will be displayed for six seconds before disappearing. Press the Audio function select to return the display to the last selected function.

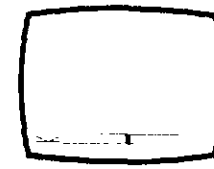
Bass Up/Down

The screen will show a line with the current level of bass set. If the bass is increased, the left hand side of the scale will increase in block size, indicating more bass. If the bass is decreased, the opposite happens, i.e. the scale will dip under the centre, indicating a reduced level of bass.



Balance

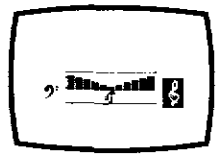
Press the ' −' button to bias the sound to the right speaker.
Press the '-' button to bias the sound to the left speaker.



If the 'Audio' button is pressed again, it will return to the original function displayed when first pressing the Audio Function Select button.

Treble Up/Down

The screen will show a line with the current level of treble set. If the treble is increased, the right hand side of the scale will increase in block size, indicating more treble. If the treble is decreased, the opposite happens, i.e. the scale will dip under the centre, indicating a reduced level of treble.

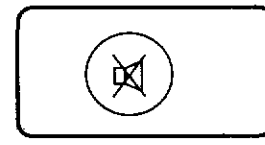


(22) Normalisation

If levels of volume, brightness, colour, balance, contrast, tint and sharpness have been altered, they can be set back to their stored levels, by pressing this button.

(23) Sound Mute

Press this button to mute the sound. To restore the sound, perform any one of the following:
(a) Press the SOUND MUTE button again.
(b) Press the STANDBY button to set the TV in the standby condition, then press again.
(c) Press the VOLUME up or down buttons.
(d) Press the PROGRAMME up or down buttons.
(e) Press the NORMALISATION button.
(f) Press the PROGRAMME select buttons 0 - 9.



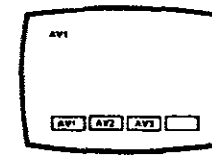
While the sound is muted, a red MUTE symbol is displayed in the bottom left of the screen.

Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

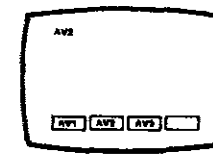
(24) TV/AV Selection

Press this button to select Audio/Video mode. The screen will look like this:-

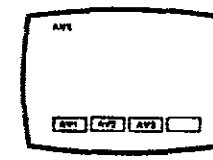


Press the RED coloured button to select AV1, the GREEN coloured button for AV2 or the yellow coloured button for AV3.

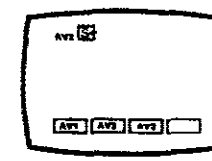
If AV2 is selected, the screen will look like this :-



If AV3 is selected,the screen will look like this :-



Or if the Super-VHS (S-VHS) switch on the front panel is in, the screen will display:



Press the TV/AV button again to return to TV mode.

Note: Both AV2 and AV3 have connections for VCR's equipped with Super VHS (S-VHS); please refer to your VCR operating instructions for full details.

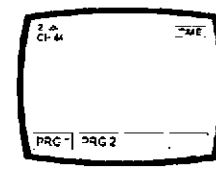
Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

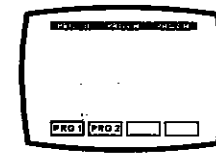
(25) Status

Press this button, the display will now show:-

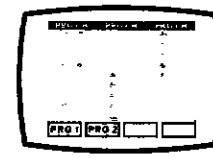
The Programme position will be shown at the top left and the channel number below it.
If teletext is also being received, the time will be shown in the top right of the display, and the name of the teletext transmission will be in the centre of the screen, under the coloured blocks.



If Stereo or Dual stereo broadcasts are being received the sound selection will be shown to the right of the programme position.
Note: The Programme position will remain on the screen until the STATUS button is pressed again.
To see which channels are stored on programme positions 0 - 26, the RED teletext button must be pressed within six seconds of pressing the STATUS button, the screen will display:



To see which channels are stored on programme positions 27-50,the GREEN teletext button must be pressed within six seconds of pressing the STATUS button, the screen will display:

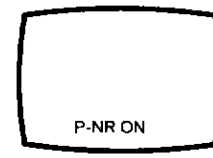


Press the STATUS button to cancel this display.

(26) Picture Noise Reduction

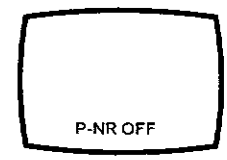
Note: This feature will only operate when the sharpness control is set to the two highest settings.
Press this button, the Picture noise e.g Inteference is reduced. The screen will show either :-

if the Picture Noise reduction is ON,



or:-

If the Picture Noise reduction is OFF.



Remote Control Operation for TV

Please refer to the remote control diagram on page 23.

(27) Music/Speech mode

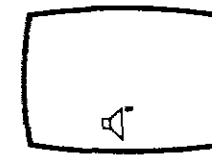
Press this button to enhance the TV sound. The Music/Speech indicator on the screen of the TV will show either a speaker (indicating Speech mode) or a pair of musical notes (indicating Music mode). It is possible to store different bass and treble values on Music and Speech modes

Music Mode

To have a wider frequency range. The screen will show:-

Speech Mode

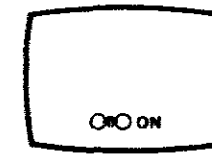
To have a soft tone for easier listening. The screen will show:-



(28) Ambience

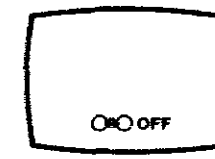
Ambience sound is a dynamic sound system that gives a feeling of greater acoustic presence. Press this button to obtain better acoustic sound from the speakers. The screen will show either:-

if the Ambience is ON,



or

If Ambience is OFF.



Nicam Stereo Sound System

Please refer to the remote control diagram on page 23.

(29) Sound Channel Selection Button

Sound output can be selected by pushing the sound channel button on the remote control transmitter.

To receive NICAM broadcasts, this receiver incorporates a NICAM decoder.
When a stereo, dual -soundtrack or monaural NICAM programme is being received, the screen display will inform you of the type of transmission.

One of the following symbols will appear in the top left corner of the screen, depending on the type of transmission.

STEREO	⊙
NICAM MONO I	I
NICAM MONO II	II
MONO	▽

NOTES :

1) When the power is switched ON, the mode is pre - set to the last memorised position.
2) If the receiving conditions deteriorate, the audio reception may vary between STEREO and MONO, in this case it is advisable to switch to MONO mode. (▽), i.e Regular sound.

Remote Control Operation for Teletext

Please refer to the remote control diagram on page 23.

NOTE: Teletext features may vary depending on the Broadcasting Companies, some features may be altered by the Broadcasting Companies.

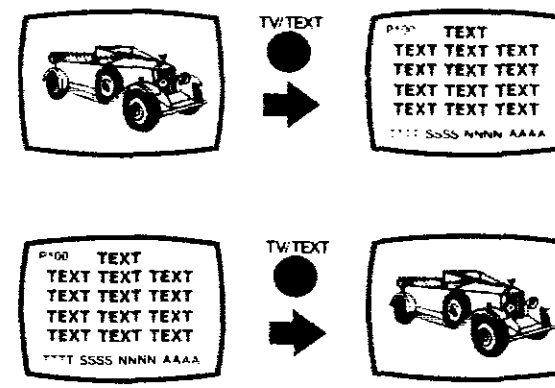
(30) TV / Text

Press this button to change from TV to Teletext mode.

NOTE: Teletext information is only available if the channel selected is transmitting Teletext

Press this button again to change back to TV mode.

NOTE: Pressing the 'N' button will also change back to TV mode.



(31) Mix

Press this button to superimpose Teletext pictures onto the TV display.

NOTE: Unless the sound is muted, it will be present in TEXT, TV or MIX modes. Press the 'TV 'or 'N ' button to return to TV mode.

(32) Page Selection

Pages can be selected in two ways:

(a) By entering the page number directly, using buttons 0-9 on the remote control.

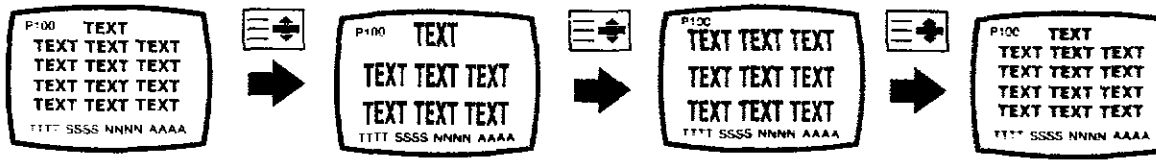
(b) By using the programme up/down buttons to increase or decrease the page number by one.

(33) Full/Top/Bottom

Press this button to expand the TOP half of the display.

Press again to expand the BOTTOM half of the display.

Press again to return the display to normal (FULL) size.



(34) Hold

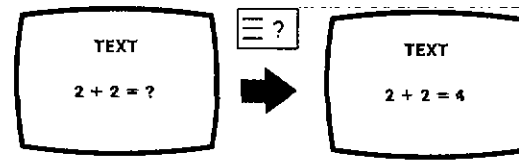
When Teletext information exceeds more than one page, the display changes automatically to the next page. To hold a particular page, press this button. The 'HOLD' symbol will appear at the top left of the screen. This display will remain until the HOLD button is pressed again.

Remote Control Operation for Teletext

Please refer to the remote control diagram on page 23.

(35) Reveal

Press this button to reveal hidden words e.g. quiz pages with hidden answers. Press again to hide the word

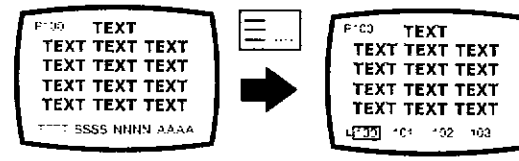


(36) Red/Green/Yellow/Blue Buttons

These four buttons are colour-coded to correspond to the differently coloured subjects in 'FASTEXT' mode. In 'LIST STORE' mode, they correspond to the differently coloured page numbers.

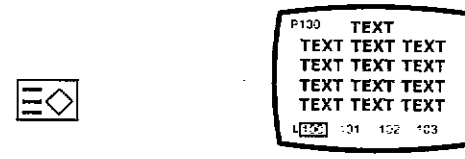
(37) List/F.text

Press this button to change from FASTEXT mode to LIST mode and vice versa. In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information of the subjects shown.
NOTE: These subjects are determined by the broadcasting authorities and cannot be changed by the customer.



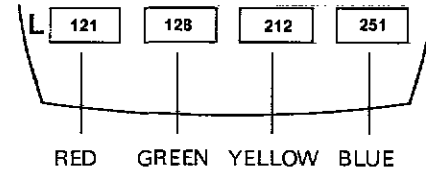
(38) List Store

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV 's memory. To do this, press any one of the coloured buttons on the remote control, this will select the number to be changed. Then enter the new page number to be stored, using buttons 0-9 on the remote control.
Press and hold the LIST STORE button until the page numbers change to WHITE indicating that the number is now stored in the TV memory.



NOTES:

1) When first switching to LIST STORE mode, the page number coloured RED will be automatically selected.
2) All four page numbers will be stored at the same time. This facility enables the customer to store four different page numbers on 25 programme positions. This means that up to 100 Teletext page numbers can be stored the TV memory. (PROGRAMMES 1 - 25 ONLY).
3) These pages will remain in the memory, even when switching off.
4) If there is no page number matching the entered number then the number selected will keep flashing.

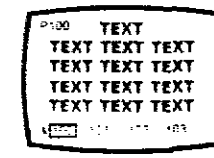


Remote Control Operation for Teletext

Please refer to the remote control diagram on page 23.

(39) Favourite Page (F.P.)

This feature will store a favourite page in the TV memory and will be instantly recalled when pressed. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 - 25. Press the BLUE button, choose your page number, then press LIST STORE button. The page number is now stored. Press the F.P. button to recall this page.

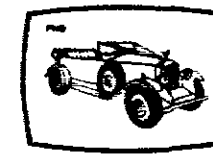


(40) Reset

Pressing this button in the FASTEXT mode will reset the present page back to page 100 and associated colour subjects. Pressing this button in the LIST mode resets the present page to the RED coloured page number.

(41) Display Cancel

While searching for a Teletext page, the TV display can be viewed by pressing this button. When the page has been found, the found symbol will be displayed at the top left of the screen.

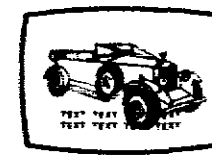


News Flash

When a news flash page has been selected, (see subject index), to view the TV programme press the DISPLAY CANCEL button. Every time an updated newsflash is available, the updated news item will appear over the normal TV programme. Press the DISPLAY CANCEL button to make the news information disappear.

Updated news will appear again when the news changes.

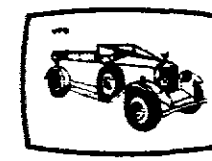
Note: It is not possible to select another programme position in NEWS FLASH mode.



Update

Certain Teletext pages contain information which is constantly being updated or information containing several pages. If you have selected one of these pages, press the DISPLAY CANCEL button to view normal TV. When the page information changes , the 'UPD' symbol will be displayed at the top left of the screen. To view the updated page press the TEXT button twice: the page will disappear when the DISPLAY CANCEL button is pressed.

Note: It is not possible to select another programme position in UPDATE mode.



(42) Index

Push this button, in FASTEXT mode, to return to the main index page. Depending on the way information is transmitted by each TV channel, this INDEX button may need to be pushed more than once to return to the main index page. In LIST mode, the page is reset to Page 100.

Remote Control Operation for Teletext

Please refer to the remote control diagram on page 23.

(43) Time Text

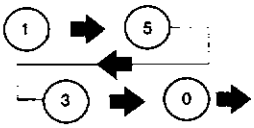
This function is used for selected pages only e.g. The Teletext alarm page. Refer to the subject index page for page location.

1) Select the TELETEXT alarm page.
2) Press the TIME TEXT button. Txxxx will be displayed at the top left of the screen; now enter the time at which this alarm page should be displayed using buttons 0-9 on the remote control.

THIS FEATURE USES A 24 HOUR CLOCK.

EXAMPLE: To set the alarm for 3.30 PM; press buttons 1,5,3,0 consecutively, the Txxxx display will change to T15:30 momentarily then return to the current page number. *If in LIST STORE mode the letter ' T ' will* appear in the current coloured box at the bottom of the screen indicating that the alarm page has been set. Press the DISPLAY CANCEL button to view TV. At 3.30pm the alarm page will be displayed.

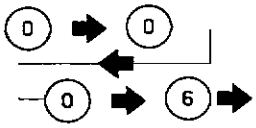
To cancel this feature press the TV button to return to normal viewing, the TEXT button if you wish to select other teletext pages or press the RESET button.

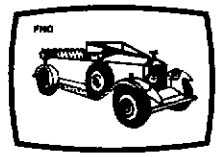


Sub-coded page access (Time Text button)

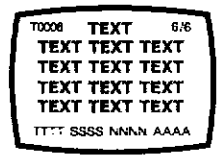
When Teletext information exceeds more than one page, it may take some time for the automatic changing of the sub- pages to reach the sub-page you require. It is possible to enter your required sub-page and continue watching the normal programme until the correct sub-page is found.

1) Select the required Teletext page using buttons 0-9 on the remote control,
2) Press the TIME TEXT button, Txxxx will be displayed at the top left of the screen.
3) Enter the desired sub-page number before the Txxxx disappears. If you select sub-page 6 then you must press 0,0,0 and 6 buttons.
4) If in LIST STORE mode the letter ' T ' will appear in the current coloured box at the bottom of the screen indicating that the sub-coded page has been set.
5) Press DISPLAY CANCEL to view a normal TV programme. When the desired sub-page is found, the found symbol will appear at the top left of the screen. The sub page is then available until a new page is selected or until it is cleared.
6) Press the TEXT button to display the found sub-page.
7) To clear the sub-coded page, enter a new page number or press RESET.



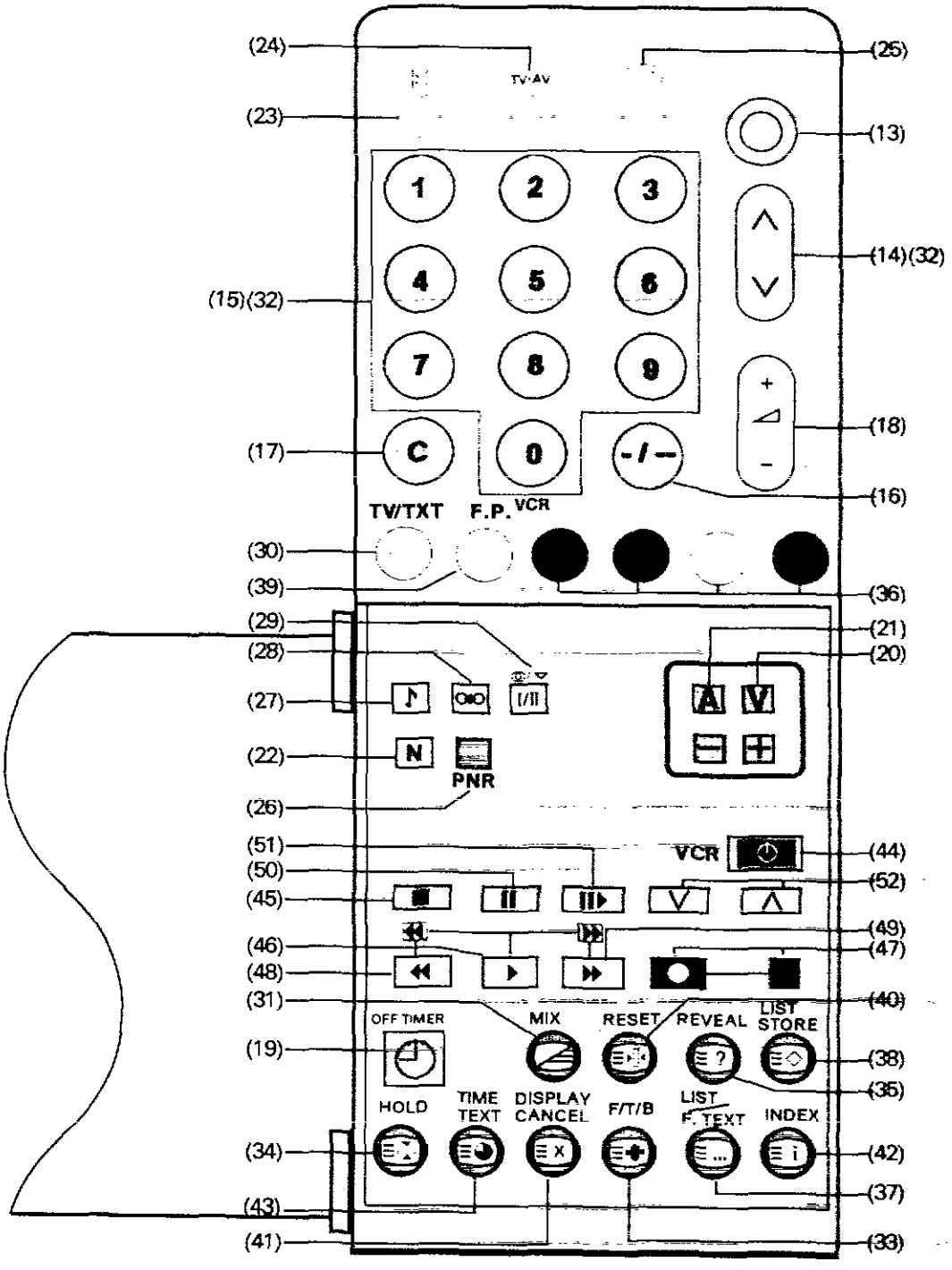


TV/TEXT



Note: It is not possible to select another programme during sub-page operation.

Remote Control Transmitter



Note: An adhesive label is provided with the remote control to provide a reference to the keys functions This label can be attached to the inside of the lid on the remote control hand unit.

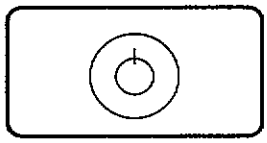
Remote Control Operation for VCR

Please refer to the remote control diagram on page 23.

This infra-red remote control is designed specifically to be used with selected Panasonic VCR's, consult your dealer for details. Some VCR's have different functions, so to ensure compatibility, please refer to the VCR instruction book or consult VCR function. The buttons for VCR operation are numbered below.

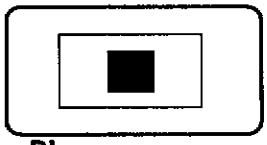
(44) Standby

Press to switch the VCR on or off.



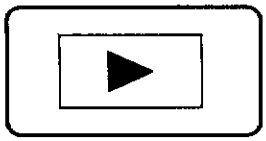
(45) Stop

Press this button to stop the tape.



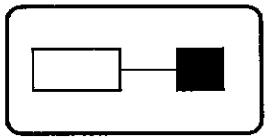
(46) Play

Press this button to playback the tape.



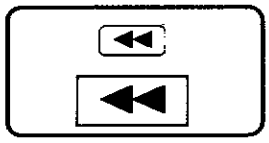
(47) Record

Press these buttons together to record.



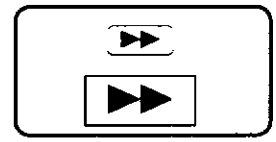
(48) Rewind/Review

Press this button to rewind the tape. In playback mode, press this button to view the picture in reverse rapidly.



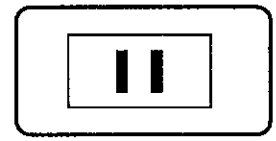
(49) Fast Forward/Cue

Press this button to fast forward the tape. In playback mode, press this button to view the picture rapidly forward.



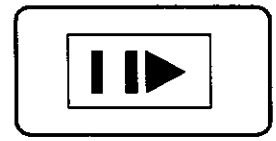
(50) Pause/Still

Press this button in playback mode, the picture will pause.



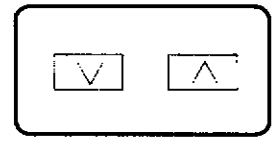
(51) Still Advance

While in the PAUSE/STILL mode press this button to advance the picture one frame at a time.



(52) Programme Up/Down

Press once to increase or decrease the VCR programme position by one.



Important Note

Certain Panasonic VTR's now have a facility for operating two VTR's with two types of signals from one Remote Control.These signals are called Remote Control Mode "VTR1" and "VTR2".
When using the TV.Remote Controller for VTR operation, the handset will only function when the VTR is set to Remote Control mode "VTR1".
This handset will not operate when the VTR is set to Remote Control mode "VTR2".

General Information

Sleep Feature

If the set is not switched off when the TV station stops transmitting at the end of the evening, it will automatically go to standby mode after 30 minutes.
Note : This function will not operate when the TV is in AV mode.

Service

To obtain service please contact your local Panasonic dealer, and quote the model number and serial number (both are located at the rear of the TV).

T.V. Games / home Computers

Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage, can be limited by observing the following points:
(a) Reduce the brightness and contrast levels to a minimum viewing level.
(b) Do not operate the television set for a continuous period of time while using TV games or home computers

This type of picture tube damage is not an operating defect, and as such is not covered by the Panasonic warranty

Accessories: 1 remote control (TNQ8E0435) 2 R03 (UM-4) size batteries 1 T.V. Stand.

Note: Certain TV functions have a last position memory, that is to say whatever level was set at the time of switch off will be the level displayed when the receiver is switched on again. See table below for list of last memory functions and no memory functions.

Last Position Memory	**No Last Position Memory**
Programme	AV1, AV2, AV3
Volume	Teletext
Brightness	Sound Mute
Colour	Ambience
Contrast	
Bass	
Treble	
Balance	
Nicam Mono / Stereo	
Sharpness	
Music / Speech setting	

Trouble Shooting

Before calling for service, make a few simple checks as follows:

Symptoms	Checks
No picture No sound	Not plugged into A.C. supply. Not switched on. Check contrast, brightness and volume settings.
Normal picture No sound	Check volume level. Check sound mute button on remote control. Check INT./EXT switch on speaker terminals at rear of TV.
No colour Normal sound	Check colour level.
Interference on screen Distorted sound	Electrical appliances, cars, motorcycles, fluorescent lights.
Multiple image. Snowy picture. Distorted sound. Characters missing in Teletext mode.	Direction, location and/or aerial connection.
Remote control malfunctions or reduction in operating distance.	Replace batteries. Clean indicator window.

Specifications

Power source	240V AC, 50Hz
Power consumption	160 (155) W
Receiving system	PAL I
Picture tube	66 (59) cm V FST 110°
Audio output	2 x 10W (Internal speakers) 2 x 20W (External speakers)
Speakers	2 x L/R
Terminals	Aerial. **AV1** 21 pin terminal. Audio/Video in/out RGB in **AV2** 21 pin terminal (Video/Audio in / out) (S-VHS in) S-VHS 4 pin (C/Y in) 2 x RCA Audio in. **AV3** S-VHS 4 pin (C/Y in) 2 x RCA Audio in. 1 x RCA video External loudspeakers. Headphone.
Dimensions	H 551 (507) mm W 686 (635) mm D 500 (467) mm.
Weight	38 (32.5) kgs.

Note: Specifications are subject to change without notice. Weight and dimensions shown are approximate.
Dimensions shown in brackets refer to TX-25A2X.

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